

Title (en)
Image presentation and micro-optic security system

Title (de)
Bilddarstellung und mikro-optisches Sicherheitssystem

Title (fr)
Présentation d'images et système de sécurité

Publication
EP 2365376 A3 20111130 (EN)

Application
EP 11003627 A 20060518

Priority
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• US 68303705 P 20050520

Abstract (en)
[origin: WO2006125224A2] Am image presentation system employing microstructured icon elements to form an image. In one form a synthetic optical image system is provided that includes an array of focusing elements, and an image system that includes or is formed from an array or pattern of microstructured icon elements, such as those described below, wherein the microstructured icon elements are designed to collectively form an image or certain desired information, and wherein the array of focusing elements and the image system cooperate, for example through optical coupling, to form a synthetic optical image which image may optionally be magnified. In another form an image presentation system is provided that includes or is formed from an array or pattern of microstructured icon elements, such as those described below, wherein the microstructured icon elements are designed to collectively form an image or certain selected information, and wherein the image system is designed to stand alone and be the image viewed or the information read by use of a magnifying device, such as a magnifying glass or microscope, that is provided separately from the image system.

IPC 8 full level
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Citation (search report)
• [XPL] US 2005180020 A1 20050818 - STEENBLIK RICHARD A [US], et al
• [XYI] US 4417784 A 19831129 - KNOP KARL H [CH], et al
• [XY] US 2003179364 A1 20030925 - STEENBLIK RICHARD A [US], et al
• [XYI] WO 03098188 A2 20031127 - NANOVENTIONS INC [US]
• [Y] US 5085514 A 19920204 - MALLIK DONALD W [US], et al
• [Y] WO 03061980 A1 20030731 - RUE DE INT LTD [GB], et al
• [Y] US 6712399 B1 20040330 - DRINKWATER KENNETH JOHN [GB], et al

Cited by
JP2012121170A; US11221448B2; US11113919B2; US11861966B2; US10859851B2; US10850550B2; US11618275B2; US10252563B2; US11590790B2

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DOCDB simple family (application)
US 2006019810 W 20060518; AU 2006246716 A 20060518; BR PI0610706 A 20060518; CA 2608754 A 20060518; CN 200680026431 A 20060518; DK 06784452 T 20060518; EP 06784452 A 20060518; EP 11003625 A 20060518; EP 11003626 A 20060518; EP 11003627 A 20060518; EP 11003628 A 20060518; EP 11003629 A 20060518; EP 11003630 A 20060518; EP 11008301 A 20060518; EP 12000103 A 20060518; EP 12001223 A 20060518; EP 13178731 A 20060518; ES 06784452 T 20060518; ES 11003625 T 20060518; ES 11003626 T 20060518; ES 11003627 T 20060518; ES 11003629 T 20060518; ES 11003630 T 20060518; ES 11008301 T 20060518;

ES 12000103 T 20060518; IL 18744007 A 20071118; JP 2008512603 A 20060518; KR 20077029417 A 20060518; MX 2007014362 A 20060518;
RU 2007145611 A 20060518; US 34170208 A 20081222; US 43808106 A 20060518